



## Anti-Human NAP-2 (CXCL7)

20150304ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M81</b>
Size:	500 µg
Lot. No.:	According to product label

**Preparation:** Monoclonal antibodies were produced in BALB/c mice using recombinant human NAP-2 as the immunizing antigen. This IgG1/K antibody was purified from a Protein A chromatography column.

### Target Background

<b>Synonyms (Target):</b>	CXCL7, NAP1L4; NAP2; NAP2L; hNAP2; NAP1L4b
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NAP-2 is a CXC chemokine that can signal through the CXCR1 and CXCR2 receptors. It is produced in leukocytes by enzymatic processing of a precursor called platelet basic protein (PBP). NAP-2 chemoattracts and activates neutrophils. Recombinant human NAP-2 protein is a 7-8 kDa protein containing 70 amino acid residues including the four highly conserved cysteine residues present in CXC chemokines, and also including the "ELR" motif common to CXC chemokines that bind to CXCR1 and CXCR2.

#### Database References Target

<b>Protein RefSeq:</b>	NP_002695.1
<b>Uniprot ID:</b>	P02775
<b>mRNA RefSeq:</b>	NM_002704.3

### Product Specifications

<b>Species reactivity</b>	Human
<b>Cross reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Purification</b>	ammonium sulfate co-precipitation
<b>Immunogen</b>	Recombinant Human NAP-2
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** Lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least 2 weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

**ELISA:** This antibody can be used at a concentration of 1-2 µg/ml, as a capture antibody in conjunction with a compatible secondary reagent to yield satisfactory results in a sandwich ELISA (using 100µl/well antibody solution).

**Western Blot:** To detect hNAP-2 by Western Blot analysis this antibody can be used at a concentration of 0.5-1.0 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hNAP-2 is 0.5-1.0 ng/lane, under reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**